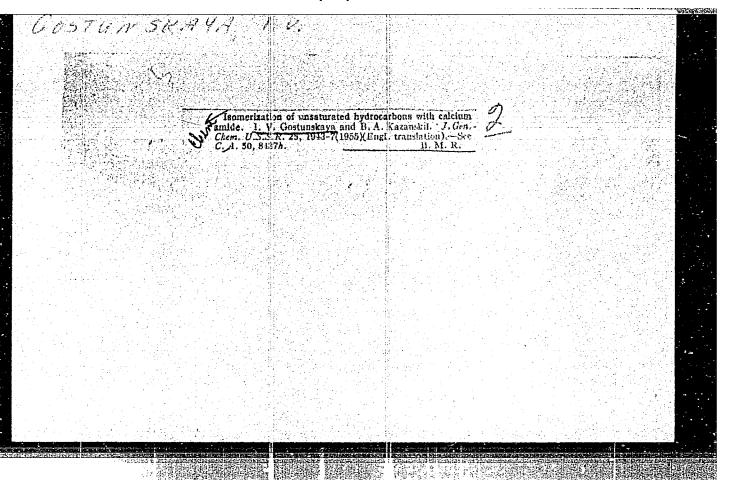
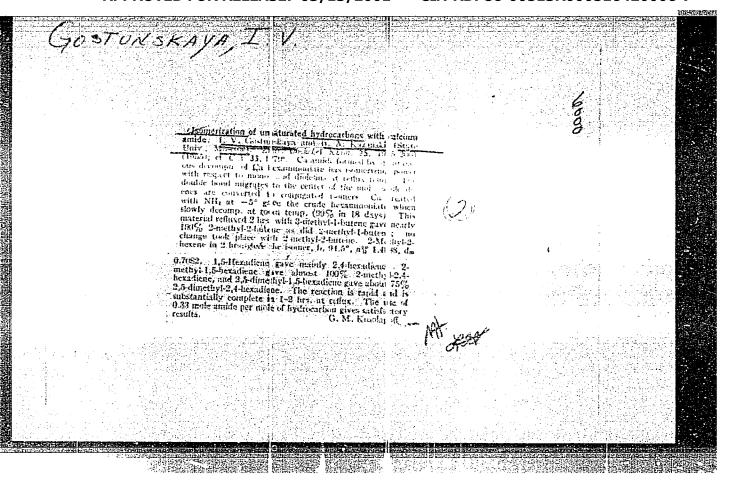
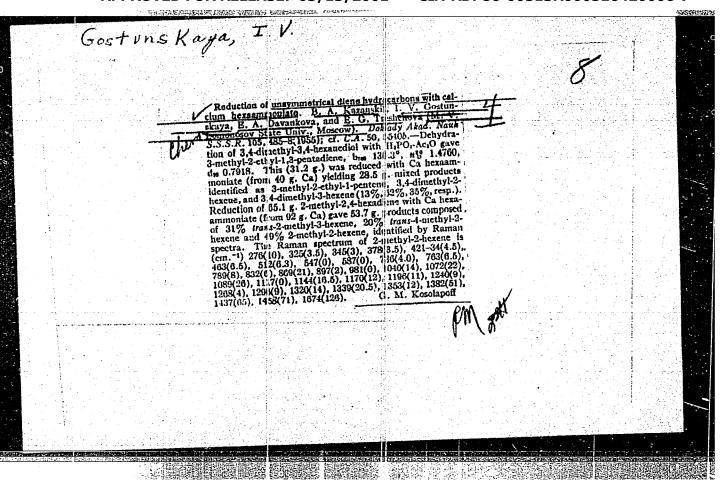
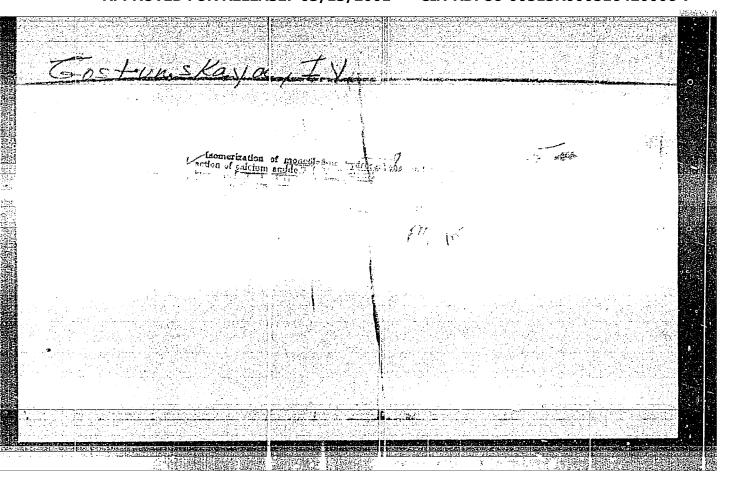


KAZANSKIY, B.A.; GOSTUNSKAYA, I.V. Addition of hydrogen to an isolated double bend effected by calcium hexaarmeniate. Zhur.eb.khim. 25 ne.9:1704-1711 S '55. (MIRA 9:2) 1. Moskevskiy gesudarstvennyy universitet. (Hydrecarbens) (Armines) (Hydregenatien)









'APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516420006-7

E-1

COSTUNSKAYA, J. V.

USSR/ Organic Chemistry - Theoretical and general questions

on organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11593

: Gostunskaya I.V., Tyun'kina N.I., Kazanskiy B.A. Author

: (Academy of Sciences USSR) Moscow State Univ

: Isomerization of Mono-Olefinic Hydrocarbons by Action of Calcium Amide Inst Title

Orig Pub : Dokl. AN SSSR, 1956, 108, No 3, 473-476

Abstract : Study of isomerization of 2- and 3-methylbutene-1 (I and II) hexene-1 (III), 2,3-dimethylbutene-1 (IV), 2,3-dimethylbutene-2, 2,5-dimethyl-

hexene-2 at 70° and 2,5-dimethylhexene-3 at 120°, by action of

Ca(NH2)2. Study of isomerization products has revealed that the double bond is shifted from the end of the chain to the middle, as well as from the middle to the end, and in the mixture of isomers predominates the isomer having the greatest degree of substitution at the double bond. III is isomerized more rapidly than IV. With decreasing degree of substitution at the allyl carbon rate of isomerization increases (I is isomerized to 2-methylbutene-2 more rapidly than II). The authors assume that the reaction takes place with intermediate

Card 1/2

USSR/ Organic Chemistry - Theoretical and general questions on organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11593

formation of carbanion according to the scheme (wherein M is metal):

RCH_2CH = CH_2 + MNH_2 \rightarrow RC - HCH = CH_2 MN^+H_3

RCH = CHCH MN^+H_3 \rightarrow RCH = CHCH_3 + MNH_2.

SOV/81-59-9-32804

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, pp 478 - 479 (USSR)

AUTHORS: Entin, I.G., Silant'yeva, A.G., Gostunskaya, I.V., Khromov, S.I.

TITLE: An Investigation of the Group Chemical Composition of Light Oil of

Kerosene Pyrolysis

PERIODICAL: V sb.: Sostav i svoystva neftey i benzino-kerosinovykh fraktsiy.

Moscow, AS USSR, 1957, pp 417 - 427

ABSTRACT: The group composition of 2 light cils of kerosene pyrolysis (I and II)

has been studied. Diolefines (with conjugated double bonds) were separated by heating with maleic anhydride (4 hours, boiling in ampoules). For the determination of aromatic hydrocarbons (H) with unsaturated side chains and of the nature of unsaturated H after elimination of diolefines, hydrogenation of the oils I and II and the fractions of oil I of up to 95, 95 - 122, 122 - 150, 150 - 175, >175°C was carried out under soft conditions (skeleton Ni-catalyst,

usual temperature), as well as sulfonation before and after hydro-

Card 1/2 genation. The content of paraffins and naphthenes was determined

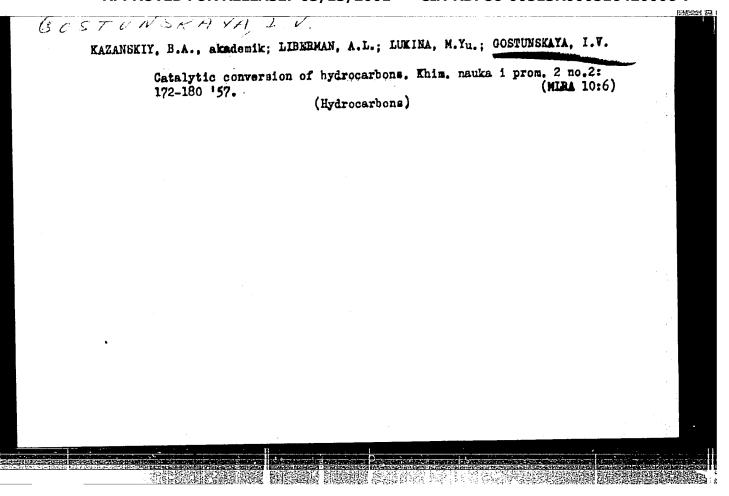
SOV/81-59-9-32804

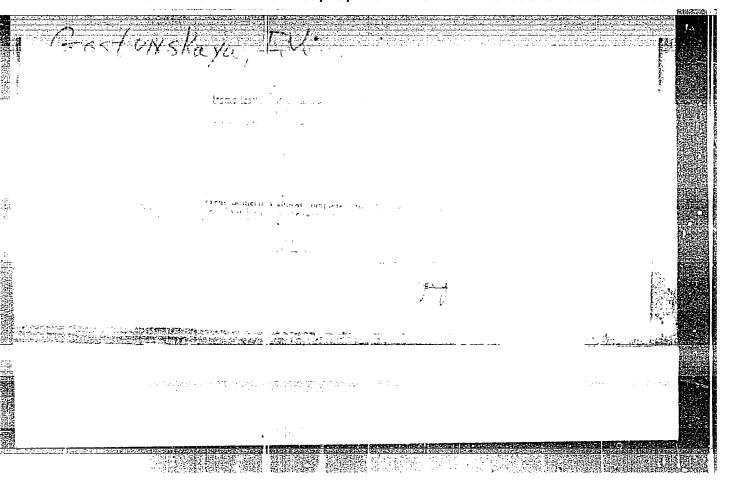
An Investigation of the Group Chemical Composition of Light Oil of Kerosene Pyrolysis

from the anilin points of the fractions. It has been established that the content of aromatic H of unsaturated nature is 12.5 and 10.5%, aromatic H of saturated nature 71.5 and 78.5, paraffin H 3.5 and 1.6, naphthene H 3.0 and 1.4, olefines 2.5 and 3.5, cycloolefines 3.0 and 3.0, diolefines with conjugated bonds 4.0 and 1.5.

Ye. Pokrovskaya

Card 2/2





Member of the AN USSR

AUTHORS:

ABSTRACT:

TITLE:

Gostunskaya, I. V., Rozhkova, M. I., Kazanskiy, B. A., The Reduction of Monolefines by Alkali Metals in Liquid Ammonia (Vosstanovleniye monoolefinovykh uglevodorodov shchelochnymi metallami v srede zhidkogo ammiaka)

20-114-3-26/60

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 3, ppc 545-548 (USSR) PERIODICAL:

Until recently hydrogen "in statu nascendi" was said to be able to reduce such double compounds, as >C=C, which are conjugated either with other double compounds or with an aromatic nucleus. During recent years neveral examples of the reduction of olefine compounds by so-called hydrogen in statu nascendi were proved. Kraus and later Burton and Ingold as well as Birch suggested considering the incidental reaction of hydrogen with a double compound (on the occasion of the influence of sodium dissolved in liquid ammonia) as an ion--reaction. Together with the reduction also a side reaution of hydrogen precipitation may occur. In the present work the influence of the characteristic and the structure of the

Card 1/4 olefine, the metal- and alcohol characteristic on the velocity

20-114 -3-26/60

The Reduction of Monolefines by Alkali Metals in Liquid Ammonia

of the reduction-reaction of the aliphatic monolefines in liquid ammonia were studied. Experimental material was normally built:pentene-1, hexene-1, octene-1, nonene-1, decene-1, octene-2 and heptene-3. Na, Li and K were used as reduction metals. Methanol and ethanol were added as proton suppliers. In the presence of methanol the reaction was relatively easy and showed 40 % production. Pentene-1, hexene-1 and heptene-1 were more quickly reduced. Octene-1 was reduced more slowly and produced 20 %. It was far more difficult with nonene-1 and decene-1 where 3 - 6 % were produced. Olefines with a double compound distant from the end of the chain (heptene-3 and octene-2) can not be reduced at all. An increase of the concentration of methanol leads to an increased precipitation of free hydrogen and to a decrease of the production of saturated olefine. If methanol is replaced by the less acidous ethanol the reduction occurs more quickly. Nonene-1 and decene-1 are reduced to 20 and 8 % respectively under these conditions. If K or Li with methanol are used as reductors the olefines mentioned can be reduced more slowly than with the use of Na. Their relative activity in the reduction-reaction does, however, not correspond with their position in the series in liquid ammonia. This series would be Na, K, Li.

Card 2/4

20-114 -3-26/60

The Reduction of Monolefines by Alkali Metals in Liquid Ammonia

The greater hydrogen precipitation by K and Li should reduce the velocity of reduction of the olefines investigated, as this velocity is lower than the velocity of the competing precipitation reaction of freehydrogen. The experimental part with the constants, production and production methods of the substances investigated follows.

Final conclusions: 1) In the case of a reduction of olefinesby alkaline metals in liquid ammonia with the addition of alcohol the production of saturated olefines decreases with increasing molecular weight of the olefine. 2) Olefines with a β - and γ -position of the double compound can not be reduced under given experimental conditions. 3) Sodium is the most active of all alkaline metals used for reduction (Li, Na and K). 4) The replacement of methanol by the less acidous ethanol increases the production of saturated olefines in the reduction of olefines of a composition C₅-C₁₀. There are 4 tables and 16 references, 5 of which are Slavic.

ASSOCIATION: Card 3/4

Moscow State University imeni M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova)

20-114-3-26/60
The Reduction of Monolefines by Alkali Metals in Liquid Ammonia
SUBMITTED: January 24, 1957

Card 4/4

OSTUNSKAYA, I.V.

62-1-20/29

AUTHORS:

Shatenshteyu, A. I., Dubinskiy, Yu. G., 62-1-Yakovleva, e. A., Gostunskaya, I. V., Kazanskiy, B. A.

TITLE:

Catalytic Reactions on the Surface of Solid Amides of Cal= cium and Potassium (O katalicheskikh reaktsiyakh na poverkhnosti

tverdykh amidov kalitsiya i kaliya)

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958, Nr 1,

pp. 104-106 (USSR)

ABSTRACT:

In the investigation of the deuteroexchange in alkenes, catalyzable by means of the solution of potassium amide their isomerization (in the dislocation of the double compound) was found. The isomerization also catalyzes the solid amide of calcium in case that the sol= vent is not present. The isomerization of the alkenes belongs to the few examples of reactions which occur in alkaline catalysis. It is assumed that the isomerization leads through the stage of carbonion formation. There is no doubt a common characteristic of the reasons for isomerization reactions in the deuteroexchange and their belon= ging to the class of basic acid reactions. They are catalyzed by the ions of the amide in ammonia solutions and the solid amides

under heterogeneous conditions.

Card 1/2

There are 1 figure, and 11 references, 8 of which are Slavic.

Catalytic Reactions on the Surface of Solid Amides of Calcium 62-1-20/29 and Potassium

ASSOCIATION: Physicochemical Institute imeni L. Ya. Karpov, and State Univer=

sity imeni M. V. Lomonosov (Fiziko-khimicheskiy institut imeni L. Ya. Karpova i Moskovskiy gosudarstvennyy universitet imeni M. V.

Lomonosova)

SUBMITTED: Jul

July 12, 1957.

AVAILABLE:

Library of Congress

1. Amides-Catalytic properties

Card 2/2

5(3) sov/55-58-3-25/30 Kazanskiy, B.A., Gostunskaya, I.V. AUTHORS: Popova, N.I. and Dobroserdova, N.B. Catalytic Hydrogenation of Diene Hydrocarbons With Conjugate TITLE: System of Double Bonds (Kataliticheskoye gidrirovaniye diyenovykh uglevodorodov s sopryazhennoy sistemoy dvoynykh svyazey) Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, PERIODICAL: ,1958,Nr 3,pp 207-216 (USSR) astronomii, fiziki, khimii The present paper contains no new results but gives a survey ABSTRACT: of the western and eastern investigations during the last 40-50 years concerning the catalytic hydrogenation of diene

with conjugate system of double bonds. Among the eastern publications there are mentioned the papers of S.V.Lebedev, and then numerous present investigations of the authors, furthermore papers of R.Ya.Levina, V.R.Skvarchenko, N.I. Tyun'kina, N.D. Zelinskiy, M.Yu. Lukina, and A.I. Malyshev. There are 3 tables, and 36 references, 22 of which are Soviet, 6 American,

5 German, 2 English, and 1 French.

ASSOCIATION: Kafedra khimii nefti (Chair of Petroleum Chemistry)

SUBMITTED: July 1, 1957

Card 1/1

Gostyns Kaya, I.V.

20-2-26/60

AUTHORS:

Rozhkova, M. I., Gostunskaya, I. V., Kazanskiy, B. A., Academi-

cian

TITLE:

Reduction of Mono-Olefins by Sodium in Liquid Ammonia in the Presence of Tertiary Butyl Alcohol (Vosstanovleniye monoolefinovykh uglevodorodov natriyem v zhidkom ammiake v prisutstvii tretichno-butilovogo spirta)

PERIODICAL:

Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 299 - 301 (USSR)

ABSTRACT:

The reduction of the isolated carbon-carbon double bonds by alkaline metals in liquid ammonia apparently takes place according to an ionic scheme:

$$>C==C< + 2e \longrightarrow >Ce - Ce <$$
 (a)

$$>$$
Ce - Ce $<$ 2H⁺ $\longrightarrow>$ CH - CH $<$ (b)

$$2\bar{e} + 2H^{+} \longrightarrow H_{2}$$
 (v)

The total speed of the reduction reaction is determined by the relation of the speeds of two concurrent reactions: the addition reaction of hydrogen to the double bond of the olefin /(a) and (b)/ and the separation reaction of the free hydrogen (v). These speeds are on their part dependent on the structure of the clefin, the nature of the metal and on the acidity of the protolytic agent. In

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIArRDPS6-00513R000516420006-Reduction of Mono-Olefins by Sodium in Liquid Ammon (reference 1) it was stated that

an earlier paper by the authors (reference 1) it was stated that cannot be reduced by Na, K and Li in liquid ammonia in the presence of methyl- and ethyl-alcohol. The action of the two electron--giving alkyl groups at the double bond apparently renders the formation of the carbanion difficult. In other words the ageed of reaction (a) is thereby reduced. Consequently the relative speed of the side-reaction (v) increases. It was therefore interesting to reduce monoolefins with different positions of the double bond in the presence of a weaker proton-source than nethyl- and ethyl--alcohols. Thereby the speed of the side-reaction was to be reduced. As such a weak protolyte they selected tertiary butyl alcohol whose acidity (according to reference 2) amounts to 1/10 of that of ethyl alcohol. Sodium served as reducing metal. The following normally constructed monoclefins were subjected to the reduction: pentene-1, hexene-1, heptene-1, octene-1, nonene-1, decene-1, pentene-2, a mixture of hexene-2 and hexene-3, heptene-3 and finally octene-2. Most of these & -monoolefins may be more rapidly reduced in liquid ammonia in the presence of tertiary butyl alcohol than with the use of methyl- or ethyl-alcohol (table 1). β - and γ -monoole-fins may under the same conditions only be reduced to a very limited extent, but the reaction is accelerated by certain modifications

Card 2/3

20-2-26/60 Reduction of Mono-Olefins by Sodium in Liquid Ammonia in the Presence of Tertiary Butyl Alcohol

> of the method. Thus even the reduction of so reduction-inert hydrocarbons as the last-mentioned ones can be obtained by slowing down the formation of free hydrogen due to the use of a weaker protolytic agent. The position of the double bond in the chain of β - and Y -olefins as well as the differences of their molecular weight hardly exert any influence upon the speed of the reduction. Thus this position exerts little influence upon the results of the reduction. An experimental part with the usual data is given. There are 3 tables, and 3 references, 1 of which is Slavic.

ASSOCIATION: State University imeni M. V. Lomonosov, Moscow

(Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova)

SUBMITTED:

July 17, 1957

AVAILABLE:

Library of Congress

Card 3/3

5(3) AUTHORS:

Gostunskaya, I. V., Gusar', N. I., SOV/20-123-5-23/50

Leonova, A. I., Kazanskiy, B. A., Academician

TITLE:

The Reduction of Diene: Hydrocarbons With a Conjugate System of Double Bonds by Hydrogen at the Instant of Its Liberation (Vosstanovleniye diyenovykh uglevodorodov s sepryazhennoy sistemcy dvoynykh svyazey vodorodom "" moment vydeleniya")

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5,

pp 853-856 (USSR)

ABSTRACT:

Hydrogen at the instant of its liberation is capable of attaching itself to the diene hydrocarbons, not only in the 1.4-position, but also in the 1.2-and 3.4-positions (Refs 1-6). The sequence of the attachment depends on the structure of the diene. The attachment in the 1.2-and 3.4-positions is favored by the larger number of alkyl groups in the 1st and 4th terminal carbon atoms (di-isocrotyl and 2-methyl-hexadiene-2.4): the alkyl groups at the 2nd and 3rd atoms of the conjugate system have the same effect with regard to the 1.4-position (isoprene and di-isopropenyl). By the reduction with sodium solution in liquid ammonia (Refs 1-4) or with

Card 1/3

calcium-hexa-ammoniate (Refs 5-6), metal amides are formed

The Reduction of Diene Hydrocarbons With a Conjugate SOV/20-123-5-23/50 System of Double Bonds by Hydrogen at the Instant of Its Liberation

simultaneously with the hydrogen attachment to the double bond. It has recently become clear that the amides are capable of catalysing the displacement of the double bonds in mono-and diolefin hydrocarbons (Refs 7-10). Consequently, it could be expected that under certain conditions the structure of mono-olefins resulting from the attachment of a hydrogen molecule to the dienes should depend, not only on the structure of the initial diene, but also on the secondary reaction of the isomerization under the influence of the resulting metal amide. In order to eliminate the isomerizing effect of the metal amide, ethyl alcohol was added to the sodium solution in liquid ammonia (Ref 11). Besides, di-isopropenyl was reduced by calcium-hexa-ammoniate, and di-isocrotyl was reduced by sodium in liquid ammonia (Ref 2). The results are shown in table 1. From this it can be seen that on the reduction from all its sources at the moment of its liberation, hydrogen is attached almost exclusively in the 1.4-position of di-isopropenyl. The reduction of di-isocrotyl is less selective, although hydrogen is attached here in the 1.2-positions. From a comparison of the data for calcium-hexa-

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The Reduction of Diene Hydrocarbons With a Conjugate SOV/20-123-5-23/50 System of Double Bonds by Hydrogen at the Instant of Its Liberation

ammoniate as well as for sodium solution in liquid ammonia with those for the latter solution to which, however, ethanole has been added, it can be seen that although the secondary isomerization reaction somewhat modifies the results of the primary reaction, it does not distort them. Thus the rules governing the effect of the structure of dienes on the direction of their reduction, as specified in the papers by Levina, Kazanskiy, and collaborators, remain valid. There are 2 figures, 7 tables, and 16 references, 15 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

August 5, 1958

Card 3/3

PLATE, A.F., prof., otv.red.; GOSTUNSKATA, I.V., red.; TITS-SKVORTSOVA,
I.N., red.; ERIVANSKATA, L.A., red.; KONDRASHKOVA, S.F., red.;
IERNAKOV, M.S., tekhn.red.

[Collected studies of the interuniversity conference on chemistry
of petroleum] Sbornik trudov meshvukovskoge soveshchaniya po
khimii nefti. Moskva, Imd-vo Mosk.univ., 1960. 313 p.
(MHRA 13:11)

1. Meshvusovskoye soveshchaniye po khimii nefti. 1956.
(Petroleum)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516420006-7"

5.3300

78080 30v/62-60-1-26/37

AUTHORS:

Gostunskaya, I. V., Tyun'kina, N. I., Kazanskiy, B. A.

TITLE:

Brief Communications. Isomerization of Some Dienes in

the Presence of Catelum Amide

PERTODICAL:

Investiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1960, Ne 1, pp 132-133 (USSR)

ABSTRACT:

Isomerization of 1,5-hexadiene, 2-methyl-1,5-hexadiene, and 2,5-dimethyl-1,5-hexadiene in the presence of calcium amide at 70° in a flow system with a space velocity 0.2, was studied in order to find correlations between the structure of the investigated dienes and the rate of their isomerization. The data obtained were compared with those obtained by A. Henne and A. Turk (J. Am. Chem. Soc., 64, 826, 1942) using Al₂O₃ as

a catalyst, under identical conditions, at 365°. The data obtained show that there is not much difference

The data obtained show that there is not much difference in the rate of isomerization of different dienes with calcium amide, but there is a big difference in the

Card 1/4

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516420006-7

Brief Communications. Isomerization of Some Dienes in the Presence of Calcium Amide $\,$

78030 50V/62-60-1-26/37

Key: (a) Starting diene; (b) properties of diene; (c)
bp in OC; (d) properties of products of catalysis; (e)
degree of isomerization.

a	ь		d ^j o	ď		3	
	c	n_D^{30}	***	"20 D	d_4^{20}	Ca(NH ₂) ₂	ለኴን
CH ₂ =CH-CH ₂ -CH ₃ -CH=CH ₃ CH ₂ =C-CH ₃ -CH ₃ -CH=CH ₃ CH ₃	59,7 88,1		0,6935 0,7190				39 58
CH ₂ =C-CH ₂ -CH ₂ -C=CH ₃ CH ₄ CH ₅ CH ₄ CH ₅	113,9	1,4299	0,7419	1,4714	0,7503	81	81

Card 2/4

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516420006-7

Brief Communications. Isomerization of Come Dienes in the Presence of Calcium Amide 78080 8**0**V/62-60-1-26/37

rate of isomerization of dienes with ${\rm Al}_2{\rm O}_3$. The above data confirm the generally accepted view that acid and basic catalysts have different mechanisms. Isomerization of olefins in the presence of an acid catalyst (${\rm Al}_2{\rm O}_3$) proceeds through the formation of intermediate carbonium loss:

R = CH₂ = CH | CH₂ d- HA → | R - CH₂ = CH₃ = CH₃ | A + , GA174.53 f

Isomerization of olefins in the presence of a basic catalyst $(Ca(NH_2)_2)$ proceeds, apparently, through the formation of carbanions by elimination of protons.

Card 3/4

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-0

CIA-RDP86-00513R000516420006-7

Brief Communications. Isomerization of Some Dienes in the Presence of Calcium Amide

78080 \$07/62-60-1-26/37

 $R--CH_2-CH=CH_2\cdot J\cdot MeNH_2\rightarrow [R-\overline{C}H-CH=CH_2]MeNH_3\rightarrow$

- [R-CH-CH-CH-] McNHa -- R-CH-CH-CH-CH3-P McNHa

There are 1 table; and 4 references, 1 U.S., 3 Soviet. The U.S. reference is: A. Henne, A. Turk, J. Am. Chem.

Soc., 64, 826 (1942).

ASSOCIATION:

M. V. Lomonosov Moscow State University (Moskovskiy

gosudarstvennyy universitet imeni M. V. Lomonosova)

SUBMITTED:

June 9, 1959

Card 4/4

S/195/60/001/004/013/015 B017/B055

AUTHORS:

Gostunskaya, I. V., Dobroserdova, N. F., Berdnikova, M. P.,

Kazanskiy, B. A.

TITLE:

Isomerization of Several Hexenes Over Calcium Amide

PERIODICAL:

Kinetika i kataliz, 1960, Vol. 1, No. 4, pp. 612-616

TEXT: The authors investigated the isomerization of 1-hexene, 2-methyl 1-pentene, 3-methyl 1-pentene, 4-methyl 1-pentene, and 2,3-dimethyl 1-butene on calcium amide as catalyst. The data obtained are listed in Table 1. This table also gives a comparison with aluminum oxide as catalyst. The composition of the fractions obtained is shown in Tables 3-7. The boiling-point curves of the isomerizates of the hexenes are graphically represented in Figs. 1 and 2. A comparison of the relative isomerization rates of hexenes on Al₂O₃ and calcium amide as catalysts shows that the structure of the olefin has less influence on the rate of isomerization in the case of calcium amide. There are 2 figures, 7 tables, and 10 references: 6 Soviet and 4 US.

Card 1/2

Isomerization of Several Hexenes Over

Calcium Amide

s/195/60/001/004/013/015 B017/B055

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

July 23, 1960

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516420006-7

57340

5(3) 807/20-130-1-22/69

AUTHORS: Kazanskiy, B. A., Academician, Gostunskaya, I. V., Dobroserdova, N.B.

TITLE: Isomerization of Some Hexenes in the Presence of Aluminum Oxide

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Fol 130, Nr 1, pp 82-85 (USSR)

ABSTRACT: The authors investigated the influence of the structure of monoolefins on the relative displacement relocity of the double bond in the presence of an acid catalyst (aluminum oxide). As is known,

the same olefins may behave differently in the presence of catalysts of different kinds (acid or alkaline). Also the structure of the monoclefin may affect the readiness of isomerization. The authors carried out the isomerization at 80° and a volume velocity of 2.64 h⁻¹, and 0.23 h⁻¹ (for difficultly isomerizable hexenes), respectively. The relative isomerization rates were characterized by the amount of olefin transformed under acual conditions. Table is shown the results. The different

equal conditions. Table ! shows the results. The different behavior of the individual hexenes is clearly to be seen; 2-methyl-pentene-1 and 2,3-dimethyl-butene-1 isomerize quickly,

whereas hexene-1, 3-methyl-pentene-1 and 4-methyl-pentene-1 and 4-methyl-pentene-1 isomerize very slowly. The readiness of

Card 1/3 isomerization of the two former substances is explained by the

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516420006-7

67949

Isomerization of Some Hexenes in the Presence of Aluminum Oxide

SOV/20-130-1-22/69

presence of methyl groups on the double bond. They have an electron-donor character, and facilitate the addition of the proton to the olefin while a carbonium ion is formed. The other 3 hexenes have no alkyl substituents on the double bond. They form the carbonium ion with greater difficulty, and therefore isomerize more slowly. The authors' results permit a correct choice of catalysts for the isomerization and of the conditions for experiments with an olefin of a given structure. On the other hand, an undesirable isomerizing effect of substances with acid properties during other reactions (hydrogenation, alkylation, etc) can be avoided on the basis of these data. Table 2 presents the constants of hexenes with a double bond within the chain, which may have developed by a shift of the double bond of the initial olefins. Figure 4 shows the fractionation curve of the

Card 2/3

6794, 9

Isomerization of Some Hexenes in the Presence of Aluminum Oxide

SCY/20-130-1-22/69

2-methyl-pentene-1 and of the 2,3-dimethyl-butene-1, and table 3 shows the characteristics of the fractions obtained. Figures 2 and 3 present the said curves for the other substances investigated. There are 3 figures, 3 tables, and 6 references, 4 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstventyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: September 28, 1959

Card 3/3

Reactions of hydrogenation and dehydrogenation of hydrocarbons in works of the Academician B.A. Kazanskii. Vest.Mosk.un.Ser.2:khim. 16 no.3:63-68 My-Je '61.

1. Kafedra khimii nefti Moskovskogo gosudarstvennogo universiteta.

(Kazanskii, Boris Aleksandrovich, 1891-)

(Hydrogenation)

GOSTUNSKAYA, I.V.; LEONOVA, A.I.; DOBROSERDOVA, N.B.; KAZANSKIY, B.A.

Isomerization of hexenes under conditions of liquid-phase hydrogenation in the presence of palladium black. Nefte-khimiia 3 no.4:498-502 Jl-Ag *63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

KAZANSKIY, B.A.; DOBROSERDOVA, N.B.; BAKHMET YEVA, G.S.;
GOSTUNSKAYA, I.V.

Isomerization of hexenes in the presence of palladized coal. Neftekhimiia 3 no.4:503-506 J1-Ag 163.

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,

khimicheskiy fakul tet.

KAZANSKIY, B.A.; GOSTUNSKAYA, I.V.; CHESNOKOVA, S.Ye.; DOBROSERDOVA, N.B.; LEONOVA, A.I.

Storocisomeric conversions of individual cis- and trans-3-methyl-2-pentenes in the presence of aluminum oxide calcium amide. Nef-tekhimiia 3 no.6:871-875 N-D 163. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova, kafedra khimii nefti.

GOSTUNSKAYA, I.V.; MIRONOVA, V.A.; DOBRCSERDOVA, N.B.; KAZANSKIY, B.A., akademik

The second residence is a management of management of managements of

Chemical nonequivalence of active forms of hydrogen sorbed by a skeleton nickel catalyst. Dokl. AN SSSR 153 no.5:1071-1072 D'63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

GOSTUNSKAYA, I.V.; GO CHIN-FYN [Kuo Ch'in-feng]; KAZANSKIY, B.A.

Hydrogenolysis of cyclopentane hydrocarbons in the presence
of platinum deposited on aluminum oxide. Izv.AN.3SSR.Ser.
khim. no. 5:832-836 My '64. (MERA 17:6)

1. Moskovskiy gosudarstvennyy universitet im. M V.Lomonoscvæ.

DGBRCSERDOVA, N.B.; BAKHMET'YEVA, G.S.; LECNOVA, A.I.; GOSTUNSKAYA, T.V.; KAZANSKIY, B.A.

Displacement of double bonds in hexenes in the presence of platinum catolysts. Neftekhimiia 4 no.2:215-218 Nr-Ap'64 (M'RA 17:8)

l. Moskovskiy gosudaratvennyy universitet imeni lomenosova, khimicheskiy fakulitet.

GOSTUNSKAYA, I.V.; LEONOVA, A.I.; KAZANSKIY, B.A.

Stereoisomeric conversions of individual cis- and trans-3methylpentenes-2 under conditions of catalytic hydrogenation
in the liquid phase. Neftekhimia 4 no.3:379-381 My-Je *64.

(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova,
Khimicheskiy fakul*tet.

GOSTUNSKAYA, I.V.; GO CHIN-FYN [Kuo Ch'in-feng]; KAZANSKIY, B.A.

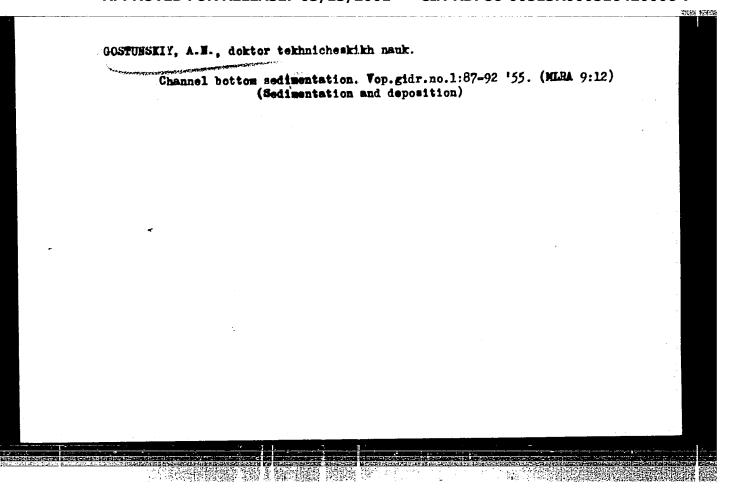
Hydrogenolysis of cyclopentane hydrocatbons in the presence of platimum deposited on silica gel. Izv. AN SSSR. Ser. khim. no.6: 1073-1077 Je '64.

Catalytic transformations of cyclopentane and its homologs in the presence of platinum deposited on aluminosilicate. Ibid.: 1078-1082 (MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet.

GOSTUNSKIY, A.W., doktor tekhnicheskikh nauk.

Stable river bed. Vop.gidr. no.1:25-32 *55. (MERA 9:12)
(Hydraulics)



SOV/98-59-8-10/33

30(1)

AUTHOR:

Gostunskiy, A.N., Doctor of Technical Sciences

TITLE:

Natural Parabolic River-Beds

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 8, pp 41-44 (USSR)

ABSTRACT:

The article consists of a series of formulæ used to determine the erosive effect of the current on the river-bed, but the author makes the reservation that such calculations are bound to be treated with a certain amount of latitude. The factors to be considered in such calculations are the dimensions and shape of cross-sections of those parts of the river-bed affected by erosion or the accumulation of silt. The formative current Q_e is taken to be a fairly frequent, heavy current, based on observations of the yearly average, currents in excess of it flooding the river-valley, and those below average only partially filling the normal cross-section of the river-bed (Fig.1). Another element involved is the angle of the river bank, including the angle of meanderings, expressed as i. The author criticizes the formulas of Professor S.T. Altunin for the width of rivers at times of normal current Q_e ,

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SOV/98-59-8-10/33

Natural Parabolic River-Beds

namely, B = AQ $\frac{0.5-0.2}{l}$ (where A = 0.75 + 1.70) and B^m = kh (where k = 8 ÷ 20 and m = 0.5 ÷ 1.0). In order to solve the question of whether Altunin's equations can be given with instant coefficients, they are replaced by the equation L = AM^dN^p connecting the variable values L, M and N. By taking logarithms, the equation is reduced to $\frac{L}{L_0} = \left(\frac{M}{M_0}\right)^{a_2} + \left(\frac{N}{N_0}\right)^{a_2}$. T. Christen's work "Nachweis der

Gleichgewichtsformel für natürliche Flussläufe" is recommended as containing data on the rules of the theory of correlation, based on research on 36 rivers, including the Aar, Elbe, Rhine, Eger, Tiber, Seine, Rhone, Danube, Nile, Volga and Mississippi. The results of calculations carried out by the author are given in tables 1 and 2, from which the equations $B = 1.500e^{.56}i^{-0.16}$, $h = 1.500e^{.56}i^{-0.16}$

 $0.11Q_e^{0.31i-0.13}$, and $v = 6.1Q_e^{0.13}i^{0.29}$ are obtained; by multiplication, Bhv = $Q=1.003Q_e$. Hence, Altunin's two formulas are re-

Card 2/3

SOV/98-59-8-10/33

Natural Parabolic River-Beds

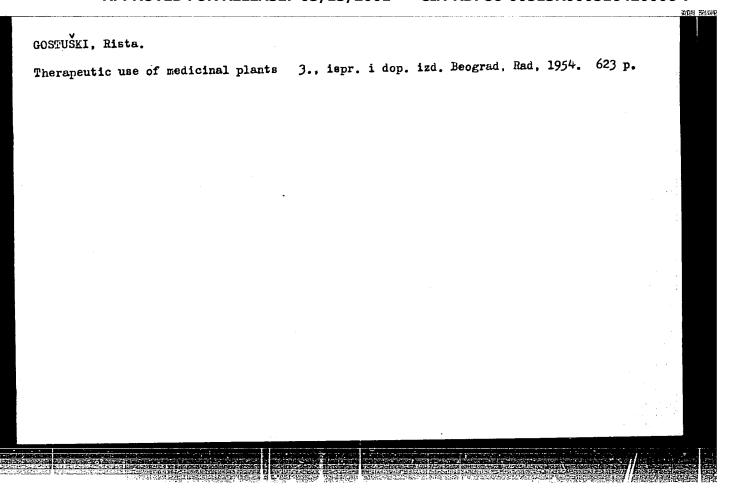
placed by B = 1.500 $e^{.56}i^{-0.16}$ and B = B = 13.60 $e^{.25}i^{-0.03}$ respectively. For the cross-section of the river it is convenient to take the equation for a profile parabola $\eta = \frac{1}{5}i^{-1}$, covering all the possibilities shown in fig.2, where $\eta = \frac{1}{5}i^{-1}$ and $\chi = \frac{1}{5}i^{-1}$ the equation can therefore be expressed thus: $y = h_0$ ($\frac{2x}{B}$). For the angle of inclination, where x = 0.5B and tg $\varphi = \mu$, we have: $\mu = \frac{1}{5}i^{-1}$ the $\frac{2}{5}i^{-1}$ the equation can therefore be expressed thus: $\chi = h_0$ ($\frac{2x}{B}$). For the angle of inclination, where $\chi = 0.5B$ and tg $\varphi = \mu$, we have: $\mu = \frac{1}{5}i^{-1}$ to find the area of the normal cross-section Ω we have $\Omega = \frac{1}{5}i^{-1}$ Bh₀. To determine the height h, we have $\Omega = \frac{1}{5}i^{-1}$ the hence $h_0 = \frac{1}{5}i^{-1}$ h; can thus be reduced to 6.8 $0.25i^{-0.03}$. Additional data is provided concerning the raising of the level of the river due to flooding, and the average flood currents of various Central Asian rivers and their coefficients of variation are given in table 3. There are 3 diagrams and 3 tables.

Card 3/3

BOIROV, Ivan Yakovlevich; GOSTUNSKIY, Nikolay Mikolayevich; YERSHOVA, I., red.; IVANOV, N., tekhn.red.

Zarusa. Kaluga. Kalushakoe knishnoe izd-vo. 1960. 93 p.
(Yarusa)

(MIRA 14:1)



"Investigation of the Problem of the Mechanism of Reactions of the Formation of Quinoid Systems in the Halogenation of Phenols." Sub 14 Nov 51, Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

GOSTYEV, M. I.

GOSTYNSKA, M.

The planned steppe reservation in Kulin on the Vistula River near Wloclawek. p. 14

CHRONMY PRZYRODE OJCZYSTA. (panstwowa Rada Ochrony Przyrody) Krakow. Vol. 15, no. 1, Jan./Feb. 1959 Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959 Uncl.

COSTYNSKI, K.

Three days on the Ruppin Canal.

p. 6 (Zolnierz Polski) No. 22, Oct. 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EFAI) LC, VOL. 7, NO. 1, JAN. 1958

COSTYNSKI, S.

For better documentation in laboratories, p. 11. (COSPODARKA ZBOZOWA, Warszawa, Vol. 6, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, J/m. 1955, Uncl.

GOSTYNSKI, S.

Powerful elevators in newly acquired lands, p. 14. Tr. from the Russian, (GOSPODARKA ZBOZOWA, Warszawa, Vol. 6, no. 2, Feb. 1955.)

50: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Jan. 1955, Uncl.

COSTYNSKI, S.

What has been written in the German Democratic Republic on grain from combines, p. 15. (GOSPODARKA ZBOZOWA, Warszawa, Vol. 6, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Jan. 1955, Uncl.

L 12896-65 PATE (1)/LEED-2/SWA(h) Peb ASD(a)-5/ASD(d)/ESD/AFTC(b)/AFETR/RAEM(a)/ESD(c)/ESD(gs)/ESD(t)
ACCESSION NR: AT4046239 S/2535/64/000/159/0257/0272

AUTHOR: Gostyukhin, V. L., (Engineer)

TITLE: Operating accuracy of a continuous-action UMF mechanical phase shifter

SOURCE: Moscow. Aviatsionny*y institut. Trudy*, no. 159, 1964. Skaniruyushchiye antenny* sverkhvy* sokikh chastot (Super-high frequency scanning antennas), 257-272

TOPIC TAGS: antenna theory, frequency scanning, superhigh frequency, phase shifter, waveguide

TRANSLATION: The author makes the point that the accuracy requirements of UHF phase shifters, which continuously change the phase of a transient wave and are used in antenna systems, vary in each concrete case, depending on the arrangement used in the connection of the phase shifter. A schematic diagram of a continuous-action mechanical phase shifter (see Fig. 1 of the Enclosure) is analyzed. It is pointed out that the device consists of three separate sections, designed of circular waveguide segments. The first and third sections are quarter-wave, the second - half-wave. All three sections may be designed to use either length-wise metallic (dielectric) insert pieces ("knives") or they may be built with inductance Cord 1/4

0 L 12896-65 ACCESSION NR: AT4046239 rods. The metallic insert variety is discussed in this paper. Because of technological inaccuracies in the manufacture of the waveguide phase shifter or in its adjustment, at the output of any of the three sections the amplitudes of mutually perpendicular components are not equal, but their phases are shifted at angles differing from the design angles of 90 and 180°. This results in an e'lipticity of the field in the phase shifter and, consequently, in phase and The author studies the effect of separately sectioned amplitude and phase errors at the output of each section on the operational precision of the phase shifter. An analysis is made of the influence of sectional phase errors on the polarization characteristics of the phase-shifting mechanism. The same method of calculation is later applied to an investigation of sectional amplitude errors. There is a discussion of the effect of phase errors in the sections on the resultant phase shift achieved by the phase shifter. It is shown that, when sectional phase errors are present, the major axis of the polarization ellipse at the phase shifter output is inclined at an angle of 450 to the plane of the plates of the preceding section. When operating the shifter in UHF equipment, there is normally a transition from a circular waveguide to a rectangular waveguide, the broad wall of which is set at an angle of 45° to the plane of the plates of the last section of the phase shifter (that is, the 2/4

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L 12896-65

ACCESSION NR: AT4046239

direction of the major axis of the polarization ellipse constitutes a 90°-angle with the broad wall of the rectangular waveguide). It is also demonstrated that when there are phase errors in the sections, the amplitude and the phase error of the wave leaving the phase shifter change as the central section of the device is rotated. The phase error of the shifter will be maximum when 8 (the angle between the immovable axis x₁ and the rotating axis x₂) is about 150° if the sectional phase errors are positive, and when 8 is approximately 30°, if these errors are negative. When the second section is rotated, the phase error changes with doubled frequency. A formula is given for computation of the phase error in the event the sectional errors are of identical sign and magnitude. In the special case in which the phase errors of all three sections are equal in magnitude, but with opposite signs for the errors in the first and third sections, the phase error of the phase shifter changes with quadrupled frequency as the second section is rotated. Orig. art. has: 7 figures and 26 formulas.

ASSOCIATION: Moskovskiy aviatsionnyty institut (Moscow Aviation Institute)

SUBMITTED: 00

ENCL: 01

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NO REF SOV: 001

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	y, 1 centura B	7. 1./ III cercus	
	A CONTRACTOR OF THE PARTY OF TH		
Card 4/4	Fig. 1. Diagram of a continuous a - I section b - II section c - III sect	n; on;	er:

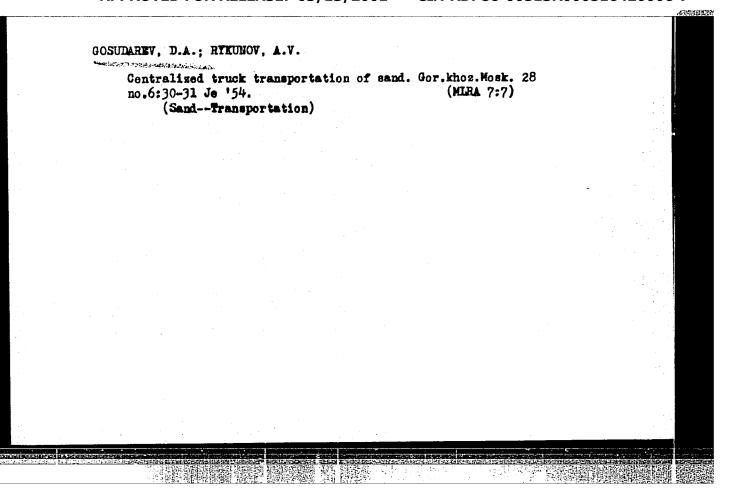
"The Anatomy of the Bile Duct in the Naman Liver." Cani Biol Sci, Stellingrad State Medical Inst, Stellingrat, 1953. (MChBiol, No 1, Sep 54)

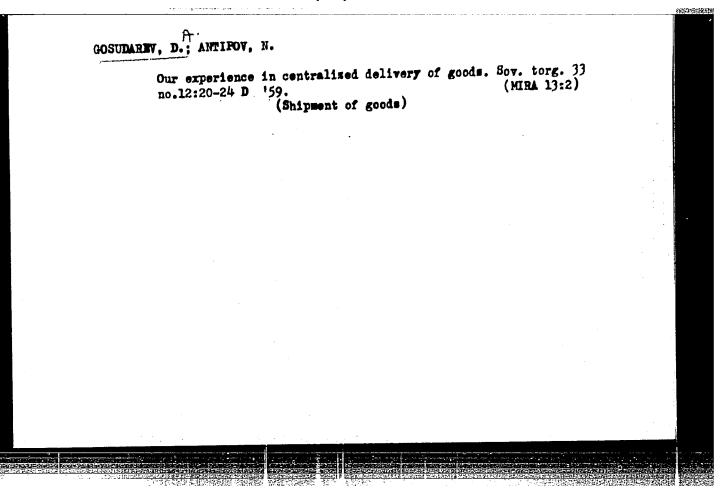
SO: Sum 432, 29 Mar 55

ADAMYAN, V.Ye.; GOSUBKOV, A.V.; LOGIMOV, G.M.

Magnetic susceptibility of samarium monosulfide. Fiz. tver. tela
7 no.1:301-304 Ja '65. (MIPA 18:3)

1. Institut poluprovodnikov AN SSSR, Leningrad.





GOSUDAREV, D.; ARTIFOV, N.

Operating trucks with small load capacity. Avt. transp. 37 no.8:12-15 Ag '59.

(MIRA 12:12)

1. Upravleniye torgovogo transporta Glavmosavtotransa.

(Motortrucks)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516420006-7"

ANTIPOV, Nikolay Ivanovich [deceased]; GOSUDAREV, Dmitriy-Alekseyevich;
RRONSHTEYN, L.A., red.; DONSKAYA, G.D., tekhn. red.

[Operation of motortrucks with low load capacity] Ekspluatatsila
avtomobilei maloi gruzopod"emnosti. Moskva, nauchno-tekhn. izd-vo
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 42 p.

(Motortrucks)

(Motortrucks)

MAGNITSKIY, Konstantin Pevlovich, doktor sel'skokhozysystvennykh nauk;
SHUGAROV, Yu.A., stershiy nauchnyy sotrud.; MAIKOV,V.K., nauchnyy
sotrud.; prinimali uchastiye: ZUYEVA,N.P., nauchnyy sotrud.;
QOSUDAREVA,A.G., leborent; FEDORENEO,N.G., leborent; KAYUN.P.K.,
red.; BACHUHINA,A.M., tekhn.red.; FROKOF'YEVA,L.N., tekhn.red.

[New methods of plent and soil analysis] Novye metody analize
rastenii i pochv. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1959.
239 p.

(MIRA 14:5)

(Soils---Analysis) (Botanical research)

MAGNITSKIY, K.P., doktor sel'skokhoz. nauk; DCSPEKHOV, B.A., kand.
sel'skokhoz. nauk, dotsent; VASIL'YEVA, D.V., kand. sel'skokhoz.
nauk; GCSUDAREVA, A.G., zenchnyv sotrudnik; EELYAKOVA, N.G.,
nauchnyv sotrudnik

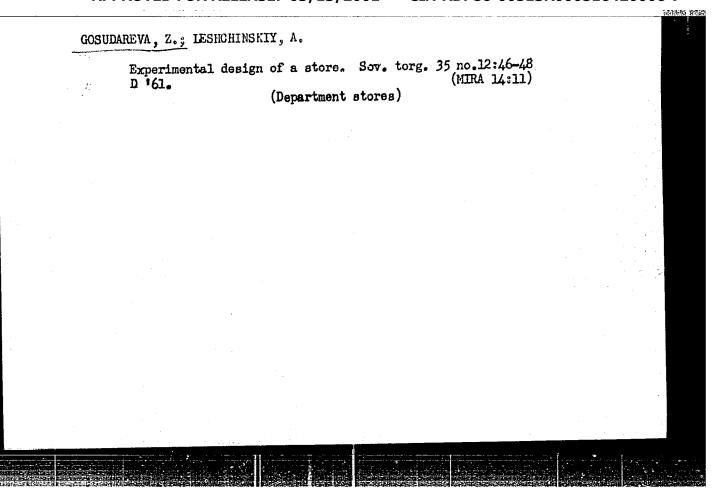
Dlagnosis of the conditions of plant nutrition in a continuous
field experiment. Izv. TSKHA no.6:151-161 '63. (MIRA 17:8)

MACNITSKIY, Konstantin Pavlovich. Prinimali uchastiye: COSUDAREVA,
A.G.; PANITKIN V.A.; BELYAKOVA, N.G.; KAPUSTYANSKIY, A.N.;
ZHUKOV, S.N.; NIKULINA, F.F.; BALABANOV, B.G.; VISHNYAKOVA, Ye.,
red.; KUZNETSOVA, A., tekhn. red.

[Control of the mutrition of field and vegetable crops] Kontrol' pitaniia polevykh i ovoshchrykh kul'tur. Moskva, Mosk. rabochii, 1964. 302 p. (MIRA 17:2)

1. Nauchnyye sotrudniki laboratorii kaliya Nauchnogo instituta po udobreniyam i insektofungitsidam (for Gosudareva, Panitkin, Belyakova, Kapustyanskiy, Zhukov, Nikulina, Balabanov).

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GOSUMARSKAYA-KUZERTSOVA, B.V., fel'deber

Poisoning from granosan. Fel'd. 1 akmsh. 25 no.3:43-44 Mr '60.
(MERA 13:6)

1. TSelinnyy Sel'sovet Tushno-Easakhstanskoy oblasti.
(MERGURY ORGANIC COMPOUNDS--TOXICOLOGY)

GOSUDARSFF. Ley Mikhaylovich; KALISHEVSKAYA, Valentina Antonovna;

ZELEPLE, Tevgenty Viadimirovich; ETDEL'S, Leonid Markovich;

GUSY KOV, G., redaktor; GARMEK, V.P., tekhnicheskiy redaktor;

SOKOLOVA, R.Ya., tekhnicheskiy redaktor

[Assignments in drawing] Fourochnye rasrabotki po chercheniiu.

Pod red. L.M.Gosudarskogo. Moskva, Izd-vo Akademii pedagogicheskikh nauk, 1956. 348 p.

(MEChanical drawing)

(Mechanical drawing)

POLAND

GOSZCZ, Władysław and MARC, Stanisław, Internal Division (Oddział Wewnetrzny), Municipal Hospital (Szpital Hiejski) im. S. Zeromskiego in Krakow-Nowa Muta (Diroctor: Docent, Dr. J. MIKLASZEWSKA)

"Evaluation of Usefulness of Mathematical Formulas for Computing Minute Heart Volume as Measured by Acetylene Method."

Warsaw-Krakow, Przeglad Lekarski, Vol 19, Ser II. No 7, 31 Jul 63, pp 303-307

Abstract: The authors determined the minute heart volume of healthy persons at rest by the acetylene method, and computed it by means of the Starr and Liljenstrand-Zander formulas. The Starr formula gave closer results and, with the introduction of a calibration coefficient came to 93 per cent of the measured value, and the authors consider it preferable to the Liljenstrand-Zander, which came to only 91 percent of the measured, after correction. They deem the Starr formula satisfactory, but consider that similar determinations for studies following exertion and in illness would be of more practical value. 12 refs: 1 Soviet, 5 Polish, 2 German.

12

GOSZGZ PROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516420006-Evaluation of usefulness of mathematical formulas in calculating

Evaluation of usefulness of mathematical lerminas in the method. the minute volume of the heart measured by the acetylene method. Przegl lek 19 no.7:303-307 '63.

l. Internal Department, S. Zeromski City Hospital, Krakow-Nowa Huta. Head: Doc. dr J. Miklaszewska.

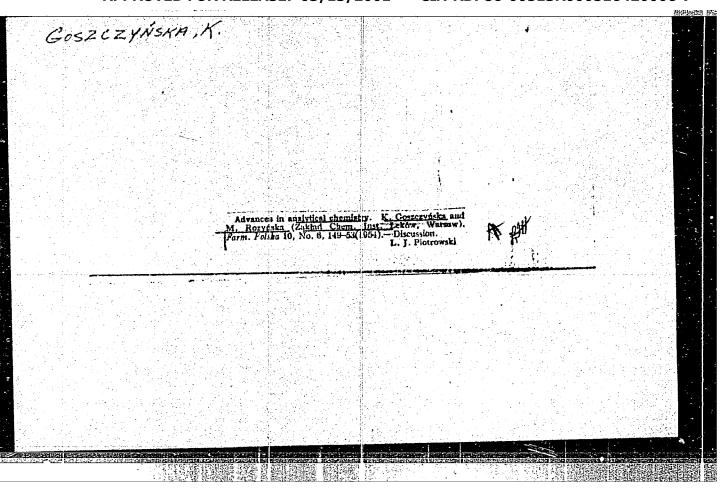
GAERTNER, Henryk; GAERTNER, Ludwika; GOSZCZ, Władysław; PASEK, Tadeusz

Effect of body position on blood composition and circulation.

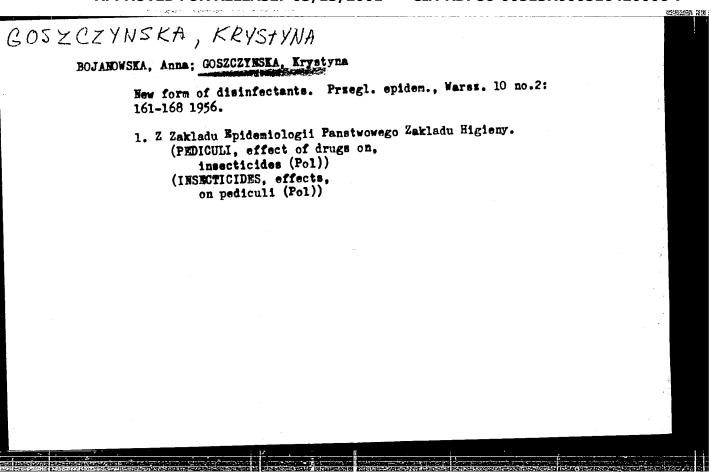
Acta physiol. Pol. 16 no.1:55-64. Ja-F'65.

1. III Ylinika Chorob Wewnetrznych Ekademii Medveznej w
Krakowie (Kierownik: prof. dr. J. Aleksandrowicz Oddsial
Chorob Wewnetrznych Sspitala Miejskiego w Krakowie- Nowej
Hucie (Ordynator: doc. dr. J. Miklaszewska).

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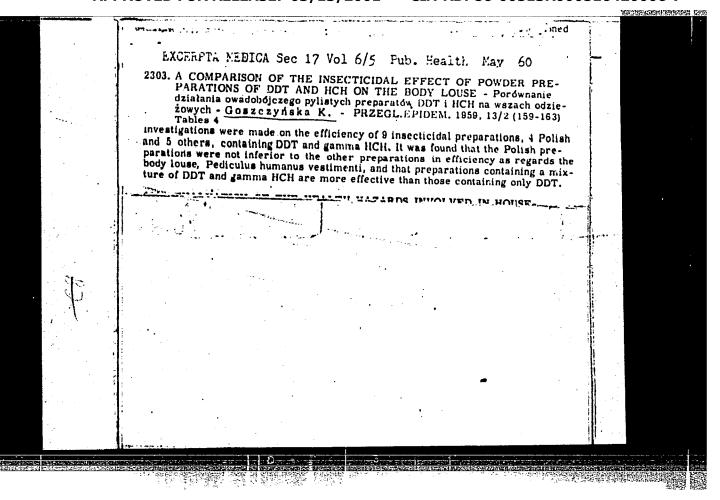
GOSZCZYNSKA, K. GOSZCZYNSKA, K., mgr.; ROZANSKA, M., mgr THE PROPERTY OF THE PARTY OF THE PARTY. Determination of pharmaceutic preparation with perchloric acid in anhydrous medium. Farm. polska 10 no.6:153-156 June 54. 1. Z Zakladu Chemii Instytutu Lekow w Warszawie. (DRUGS, determination with perchloric acid, in anhydrous medium) (ACIDS, perchloric, determ. of drugs in anhydrous medium) (CHLORINE. perchloric acid, determ. of drugs in anhydrous medium)

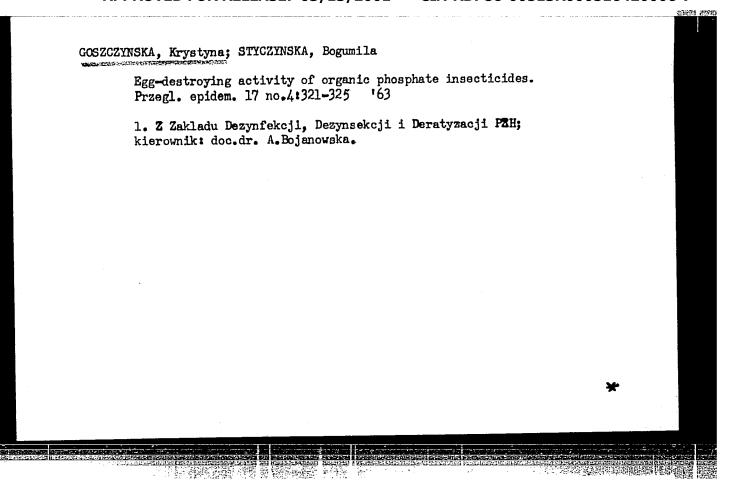


Tincture from foot of Derris as remedy against head lice, Przegl.
epidem., Warss. 11 no.2:179-182 1957.

1. Z Zakladu Epidemiologii Panatwowego Zakladu Higieny.
(PEDICULOSIS, prev. & control
tincture of Derris eliptica root in control of head
lice (Pol))
(INSECTICIBES, eff.
same)

The tincture from the root of Eerris eliptica was effective against head lice, and was non-toxic for man. A 2-hour exposure is sufficient to kill both the lice and the nits.





GOSZCZYNSKI, Jerzy

Behavior of vaginal smears in women under the influence of stilbestrol in early pregnancy and following abortion. Ginek. pol. 34 no.6:699-705 '63.

1. Z Kliniki Poloznictwa i Chorob Kobiecych AM w Bialymstoku. Kierownik: prof.dr.med. S.Soszka.

GOSZCZYNSKI, M.

On the trail of aeronautic books. p. 6.
SKRZYDLATA POLSKA, Warszawa, Vol. 11, no. 24, June 1955.

SCHOOL Monthly List of East European Accessions, (MMAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

GOSZCZYNSKI, SEWERYN

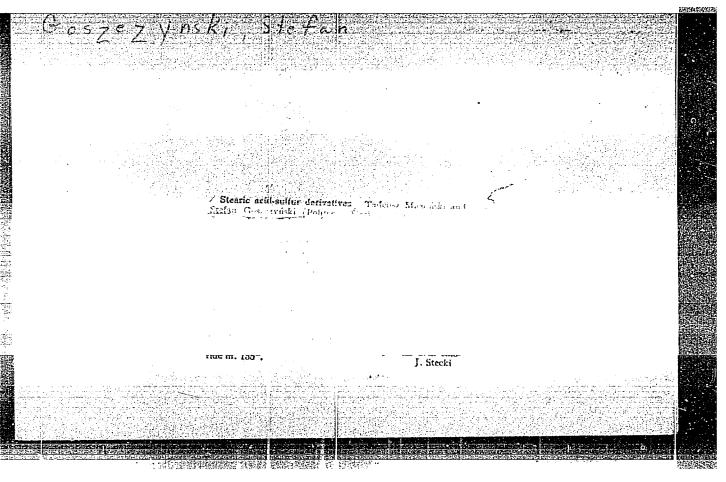
GEOGRAFHY & GEOLOGY

GOSZCYNSKI, SEWERYN. Dziennik podrczy do Tatrow. Opracowal Stanislaw Sierotwinski. Wroclaw, Zaklad Narodowy im. Ossolinskich (1958) 337 p. (Biblioteka narodawa. Seria 1, nr. 170) CU MiDW Nat in DLC

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 5, May 1959, Unclass.

KUCZYNSKI, Wladyslaw; COSZCZYNSKI, Stefan (Lods)

Limit state of a reinforced concrete beam as final stage of a continuous process of yielding and fissuration; case of a fixed end beam. Archiv inz lad 10 no.3:249-265 '64.



POLAND / Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42165.

: Goszczynski, S. Author

: Determination of Cyclohexanone Oxime by Means of Inst Title

p-Nitrophenylhydrazine and 2,4-Dinitrophenylhydra-

zine.

Orig Pub: Chem. analit., 1958, 3, No 2, 107-115.

Abstract: The method of quantitative determination of cyclohexanone oxime (1) in the form of p-nitrophenylhydrazone (II) and 2,4-dinitrophenylhydrazone (III) is described. A 5% solution of p-nitrophenylhydrazine hydrochloride (IV) with a 50% excess is added to the aqueous solution, containing > 0.005 g./ml.

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E-25

APRROYER-FORTRELEASE: 63713 / 2001 ysi SciA-RDP86-00513R000516420006-Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42165.

Abstract: of I, whereupon a yellow, colloidal, slowly coagulating precipitate is obtained; after 5-10 hours, the precipitate of II is filtered out, washed with water, dried at 105° and weighed. The error of this method is <1%. Lesser results are obtained in the precipitation of the contract of the in the presence of HC1. When I is determined in the form of III, a saturated solution of 2,4-dinitrophenylhydrazine (V) in 2 n. HCl in the amount of 75-100 ml. for each 0.1 g. of I is added to the aqueous or alcoholic solution of the sample (>0.05 mg. of I in 1 ml.). After 6-12 hours, the precipitate of III is filtered out, washed with water, dried at 1100 and weighed. The margin of error of this method is $\sim 1.2\%$. During a qualitative analysis, the minimum detected concentration of I with

Card 2/3

POLAND / Analytical Chemistry. Analysis of Organic E Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42164.

Author : Goszczynski, S.

Inst: Not given.

Title: Quantitative Determination of Cyclohexanone Oxime
by Determination of the Products Obtained from Its
Hydrolysis.

Orig Pub: Chem. analit., 1958, 3, No 2, 117-121.

Abstract: To determine cycloheranone oxime (I) quantitatively, it is proposed to hydrolyze the sample with HCl and to determine NH2OH according to Raschig or by using cyclohexanone (II) in the form of 2,4-dinitrophenyl-hydrazone. About 2 g. of the sample are mixed with 10 ml. of 10% HCl and II is distilled off with water vapor. About 350 ml. of distillate are col-

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 ysi CIAF RDP36:60513R000516420006-POLAND / Analytical Chemps(13/2001) ysi CIAF RDP36:60513R000516420006-Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42164.

Abstract: lected. The residue is diluted with water up to an amount of 50 ml., and 5 ml. of solution obtained in this manner are mixed with 10 ml. of water, 20 in this manner are mixed with 10 ml. of water, 20 ml. of saturated solution of NH₂Fe(SO₄)₂ and 10 ml. of 50% H₂SO₄. The mixture is boiled for 5 minutes, diluted in 300 ml. of freshly boiled cold water and titrated with a 0.1 n. solution of KMnO₄, 1 ml. of which corresponds to 0.005658 g. of I. The distilute, containing II, is diluted with water up to late, containing II, is diluted with water up to 500 ml. 150 ml. of water and 200 ml. of 2,4-dinitrophenylhydrazine (4.0 g. in 1 liter of 2 n. HC1) solution are added to 50 ml. of solution obtained in this way. After 6-12 hours, the precipitate is filtered, washed with water, dried, at a temperature

POLAND / Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42164.

Abstract: of 1100 and weighed. This method can be applied to the analysis of mixture of I and II. The error of determination is < 1.5%. -- N. Turkevich.

Card 3/3

POLAND PAR RELEASE in Q3/13/2000 sisCIA-RDP36-00513RG00516420006-Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42161.

Author : Goszczynski, S.

. Not given. Inst

: Quantitative Determination of the Lactam of Title

E-Aminocaproic Acid.

Orig Pub: Chem. analit., 1958, 3, No 2, 123-129.

Abstract: A method of quantitative determination of caprolactam based on its hydrolysis and determination of the E-aminocaproic acid (I), which was formed, by alkalimetric titration or by the Van Slyke method is described. About 2 g. of the sample are boiled with 10 ml. of 10% HCl (II) during 1.5 hours. The mixture is diluted in water up to 25 ml. 2 ml. of the solution obtained in this manner are titrated

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POLAND / Analytical Chemistry. Analysis of Organic E Substances.

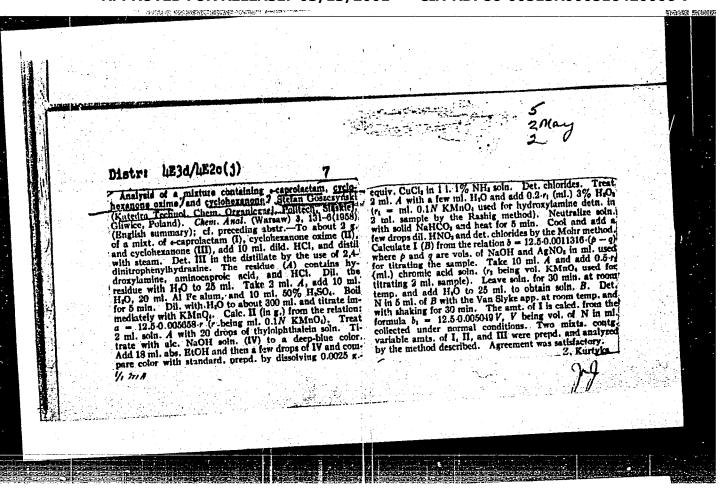
Abs Jour: Ref Zhur-Khim, No 12, 1959, 42161.

Abstract: in an apparatus for macrodetermination at 20° with NaNO₂ in an acid medium during 30 minutes. The error of the method is from =0.5 to +1.5%. -- N. Turkevich.

Card 3/3

E-23

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516420006-7"



sov/79-29-1-18/74 Fabrycy, A., Goszczyński, B. AUTHORS:

The Effect of Mercury Salts on 2-Methyl-4-Phenyl-Butine-3-TITLE:

Diol-1,2 (Deystviye soley rturi na 2-metil-4-fenilbutin-3-

dio1-1,2)

NEW TOTAL PROPERTY OF THE PERSON OF THE PERS

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 81-86 (USSR) PERIODICAL:

For the purpose of clarifying the problem of the possibility of ABSTRACT:

forming β -mercurized furan derivatives as an intermediate product and in the reaction of primary-tertiary α -glycols of the acetylene series with mercury chloride the authors investigated the reaction of the asymmetrical methyl-phenyl acetylenyl ethylene glycol (2-methyl-4-phenyl butine-3-diol-1,2) with mercury chloride. Glycol (I) was synthesized from acetol and

magnesium-bromine phenyl-acetylenyl. 2-methyl-4-phenyl butine-3diol-1,2, the primary-tertiary α -glycol of the acetylene series which has hitherto not been described in publications was synthesized. Its reaction under the influence of mercury chloride and mercury sulfate was investigated. It was found that in the case of reaction with mercury chloride (scheme)

glycol forms as intermediary product, β -mercurized furan, 4-methyl-2-phenyl-3-chloro-mercury furan which is isomeric to

α-chloro-mercury furan, 4-methyl-2-phenyl-5-chloro-mercury

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sov/79-29-1-18/74

* The Effect of Mercury Salts on 2-Methyl-4-Phenyl-Butine-3-Diol-1,2

furan. The intermediary product of the reaction, $\beta\text{-mercurized}$ furan changes in an acid medium into the final product, 4-methyl-2-phenyl furan. Thus a convenient method for the synthesis of the $\beta\text{-mercurized}$ furans not substituted in the $\alpha\text{-position}$ was detected. These furans do not form in connection with the direct mercurization of furans and have hitherto been difficultly accessible. There are 9 references, 6 of which

are Soviet.

ASSOCIATION:

Silezskiy politekhnicheskiy institut, Pol'sha (Silesian

Polytechnic Institute, Poland)

SUBMITTED:

January 5, 1958

Card 2/2

KUCZYNSKI, Wladyslaw; GOSZCZYNSKI, Stefan

Study on the approximation of the displacement function of the axis of a reinforced concrete beam. Archiv inz lad 8 no.4:327-344 162.

1. Katedra Budownictwa Zelbetowego, Politechnika, Lodz.

GOSZCZYNSKI, Stefan Quantitative determination of caprolactam according to a modified Van Slyke method. Onem anal 8 no.1:87-90 *63. 1. Department of Organic Chemistry, Politechnika, Gliwice.

GOSZCZYNSKI, Stefan; ZIELINSKI, Wojciech

Colorimetric method of determining oximes. Chem anal 8 no.6: 925-929 '63.

1. Department of Organic Chemistry, Technical University, Gliwice.

TROSZKIEWICZ, Czeslaw; GOSZCZYNSKI, Stefan

Cyclization of benzylideneacetone and β -methylbenzylideneacetone oximes to the quinoline nucleus. Rocz chemii 37 no. 7/8:919-920 163.

1. Depirtment of Organic Chemistry, Institute of Technology, Gliwice.

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Betrogen level in cases of primarily weak labor pains.

Gin. poleka 28 no.2:179-186 Mar-Apr 1956.

1. Z Kliniki Polośnictwa i Chorób Kobiecych A.M. w Gdańsku.
Kierownik: prof. dr. J.Zubrsycki. Kwidsyń, ul. Dziersyńskiego 45.

(ESTROGENS, in blood
    in early labor, determ. in cases with weak labor pains,
    comparison with normal cases (Pol.))

(LABCE, blood in
    estrogens, relation to initially weak labor pains, comparison
    with normal cases (Pol.))

(RECOD
    (Same)
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GOSZHEVSKIT F.L. KOZERENKO, V.R.

Regular features in the occurrence of polymetallic and rare-metal sones and belts. Geol.ebor.[Ivov] no.2/3:36-61 '56. (MLRA 10:3)

1. L'vevskiy gosuniversitet imeni Ivana Franke)
(Ore deposite)

COSZIETH T. Pazmany Peter Tudomayegyetem I sz. noi klinik ajanak kozlemenye. A terhesseg szules szovodes sokfoltu kemenyedessel(Sclerosis multiplexxel) Multiple sclerosis as a complication of pregnancy and delivery Magyar Norvosok Lapja, Budapest 1949, 12/5 (154-148)

A report on three cases observed among 21,410 deliveries (0.014). The clinical picture of multiple sclerosis usually grows worse during pregnancy, especially in the last months, presumably as a result of the radical changes in metabolism which pregnancy brings with it. The first patient showed a very definite aggravation of the sclerosis during pregnancy. In the second case the sudden aggravation did not appear until the end of the third pregnancy and during labour; after delivery the patients's condition improved again. The third patient had been suffering from the disease for 10 years and her lower limbs were almost completely paralysed at the time of delivery. The pregnancy should only be interrupted in cases in which it causes appreciable aggravation, otherwise it should be allowed to continue with the patient under strict observation.

Barsony - Budapest (X, 8)

SO: Neurology & Psychiatry Section VIII Vol 3 No 7-12

HOMM, B.; GOSZISTE, T.; MESZAROS, J.

Revision of the problem of manual removal of the placenta. Magy.

Revision of the problem of manual removal of the placenta. Magy.

(GIMI. 24:11)

1. Dectors. 2. First Momen's Clinic (Director -- Prof. Dr. Bela

Horn), Budspest Medical University.